

A Hibiscus Bud Midge New to Hawaii

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An excellent series of midges was received from Mr. O. H. Swezey, Entomologist, Experiment Station of the Hawaiian Sugar Planters' Association, Honolulu, under date of January 8, 1932, and accompanied by the statement that they had been recently reared from buds of hibiscus in Honolulu. The species is reported to be new in that section of the world, and had been found in only two places in Honolulu at the date of writing. The larvae of this species cause the buds to fall off before the flowers open.

Contarinia maculipennis n. sp.

Male. Length .75 mm. Antennae nearly twice the length of the body, thickly haired, yellowish brown; 14 segments, the fifth with stems each with a length two and a half times their diameters; terminal segment having the basal portion of the stem with a length four times its diameter, the distal enlargement pyriform and with an apical, finger-like process having a length approximately three times its diameter. Palpi: the first segment subquadrate, the second with a length over twice its width, the third with a length three times its width and the fourth one-half longer than the third. Mesonotum, reddish brown, the submedian lines fuscous yellowish. Scutellum, yellowish brown; postscutellum fuscous yellowish. Abdomen a variable dark yellowish brown. Wings subhyaline, variably fuscous, especially along the veins. Halteres mostly pale yellowish, brownish subapically. Legs: coxae and femora pale yellowish; tibiae yellowish, fuscous apically; tarsi mostly dark brown, an indistinct subapical band on the second segment and most of the third, fourth and fifth segments yellowish on the posterior legs. Genitalia: dorsal plate broad, deeply and narrowly emarginate, the lobes angularly rounded.

Female. Length, 1 mm. Antennae about three-fourths the length of the body, sparsely haired, yellowish brown; 14 segments, the fifth with a stem about one-third the length of the cylindrical basal enlargement, the latter with a length about two and a half times its diameter; terminal segment produced, the basal portion with a length four times its diameter and apically with a short broad process, the latter with a length about twice its diameter. Palpi: first segment subquadrate, the second with a length over three times its diameter, the third as long as the second, the fourth one-half longer than the third. Mesonotum, reddish brown, the submedian lines yellowish. Scutellum, yellowish brown, postscutellum, fuscous yellowish. Abdomen a variable fuscous yellowish. Ovipositor, yellowish, one-half

longer than the body, the terminal lobes slender with a length about six times the width. Wings distinctly subhyaline and more highly colored than in the male. Legs: coxae and femora mostly pale yellowish, with tarsi yellowish brown except a broad subapical band on the second segment and the third, fourth and fifth segments which are yellowish on the posterior legs.

Types deposited in the United States National Museum (No. 43940). Cotypes in the collections of the Hawaiian Entomological Society, and of the Experiment Station of the Hawaiian Sugar Planters' Association, Honolulu.